USSN: 10/075,715

Attorney Docket No: 1059.00073

CLAIMS:

1. (Currently amended) A method of affecting neurogenesis <u>in a patient</u> comprising the step of:

administering to a patient in need thereof a therapeutic amount of a therapeutic compound selected from the group phosphodiesterase inhibitors, Larginine, sildenafil, and statins for increasing levels of cGMP to a patient in need of neurogenesis post stroke wherein increased levels of cGMP result in neurogenesis.

Claims 2-5 (Canceled)

- 6. (Currently amended) A method of augmenting the production of neurons in a patient by administering to a patient in need thereof an effective amount of a therapeutic compound selected from the group of phosphodiesterase inhibitors, L-arginine, sildenafil, and statins that increases levels of cGMP, to a site in need of augmentation, wherein increased levels of cGMP augment the production of neurons.
- 7. (Currently amended) A method of increasing neurological function in a patient by administering to a patient in need thereof an effective amount of a therapeutic compound selected from the group of phosphodiesterase inhibitors, Larginine, sildenafil, and statins that increases levels of cGMP to a patient in need of increased neurological function after neurological damage has occurred, whereby the increased levels of cGMP create neurogenesis, thereby increasing neurological function.
- 8. (Currently amended) A method of increasing cognitive and neurological function in a patient by administering an effective amount of a therapeutic compound selected from the group of phosphodiesterase inhibitors, L-arginine, sildenafil, and statins for increasing levels of cGMP to a patient in need of increased cognitive and neurological function after neurological and cognitive damage has occurred, whereby

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the increased levels of cGMP create neurogenesis, thereby increasing neurological function.

- 9. (Currently amended) A method of affecting neurogenesis <u>in a patient</u> comprising the step of administering <u>to a patient in need thereof</u> an effective amount of a compound <u>selected from the group of phosphodiesterase inhibitors</u>, <u>L-arginine</u>, <u>sildenafil</u>, <u>and statins</u> for increasing levels of cGMP in a patient in need of neurogenesis, wherein increased levels of cGMP result in neurogenesis.
- 10. (Currently amended) A method of augmenting the production of neurons in a patient by administering to a patient in need thereof an effective amount of a compound selected from the group of phosphodiesterase inhibitors, L-arginine, sildenafil, and statins for increasing cGMP levels at a site in need of augmentation, wherein increased levels of cGMP augment the production of neurons.
- 11. (Currently amended) A method of increasing neurological function in a patient by administering to a patient in need thereof an effective amount of a compound selected from the group of phosphodiesterase inhibitors, L-arginine, sildenafil, and statins for increasing levels of cGMP in a patient in need of increased neurological function, wherein increased levels of cGMP increase neurological function.
- 12. (Currently amended) A method of increasing cognitive and neurological function in a patient by administering to a patient in need thereof an effective amount of a compound selected from the group of phosphodiesterase inhibitors, L-arginine, sildenafil, and statins for increasing levels of cGMP in a patient in need of increased cognitive and neurological function, wherein increased levels of cGMP result in neurogenesis, thereby increasing cognitive and neurological function.

Claim 13 (canceled)